IN THE CLAIMS

Please amend the claims as follows:

- 1. (Withdrawn) A golf ball comprising a center and a cover disposed over the center, wherein at least one interpenetrating polymer network is present in at least a portion of the golf ball outside the center.
- 2. (Withdrawn) The golf ball of claim 1, wherein the golf ball further comprises at least one intermediate layer disposed between the cover and the center.
- 3. (Withdrawn) The golf ball of claim 1, wherein the golf ball comprises a cover material having at least one of a dimple coverage of greater than about 60 percent, a hardness of greater than about 15 Shore A, or a flexural modulus of greater than about 500 psi, and wherein the golf ball has at least one of a compression no greater than about 120 or a coefficient of restitution of greater than about 0.7.
- 4. (Withdrawn) A golf ball comprising a non-vulcanizable, non-aromatic, or non-ionomeric interpenetrating polymer network in a portion of the golf ball.
- 5. (Withdrawn) The golf ball of claim 4, wherein the interpenetrating polymer network is formed from a material comprising a urethane, an epoxy homopolymer or copolymer, a homopolymer or copolymer having backbone or pendant ester groups, a polyimide or copolymer including imide groups, a polysilane homopolymer or copolymer, a silicone homopolymer or copolymer, a polysiloxane homopolymer or copolymer, or a combination thereof.
- 6. (Withdrawn) The golf ball of claim 4, wherein the interpenetrating polymer network is formed from a material comprising an acrylate homopolymer or copolymer, an alkylacrylate homopolymer or copolymer, a homopolymer or copolymer including vinyl acetate groups, a homopolymer or copolymer including halogen groups, a homopolymer or copolymer including a uretdione group, or a combination thereof.



5/11

- 7. (Withdrawn) The golf ball of claim 4, wherein the interpenetrating polymer network is formed from a material comprising a homopolymer or copolymer including or made from a conjugated diene or a styrenic moiety.
- 8. (Withdrawn) A golf ball comprising a semi-IPN in a portion of the golf ball.
- 9. (Withdrawn) The golf ball of claim 8, wherein the portion of the golf ball comprises at least one of a center, an intermediate layer disposed about the center, or a cover layer.
- 10. (Original) A golf ball comprising an interpenetrating polymer network having at least two polymeric components, wherein the IPN exhibits a ΔT_g between any two of the polymeric components at least about 5% less than the ΔT_g between a polymer blend comprising the same two polymeric components.
- (Original) The golf ball of claim 10, wherein the IPN exhibits a ΔT_g between any two of the polymeric components at least about 20% less than the ΔT_g between a polymer blend comprising the same at least two polymeric components.
- (Original) The golf ball of claim 10, wherein the difference between the T_g of the IPN and the T_g of a pure polymer made of the same polymeric component present in the IPN in an amount of at least about 50% is at least 3°C greater than or less than the difference between the T_g of the same polymer in a polymer blend comprising the same at least two polymeric components in the same ratio(s) as in the IPN and the T_g of the pure polymer.
- 13. (Original) The golf ball of claim 10, wherein the difference between the T_g of the IPN and the T_g of a pure polymer made of the same polymeric component present in the IPN in an amount of at least about 50% is at least 10°C greater than or less than the difference between the T_g of the same polymer in a polymer blend comprising the same at least two polymeric components in the same ratio(s) as in the IPN and the T_g of the pure polymer.
- 14. (Withdrawn) A golf ball comprising an interpenetrating polymer network having at least two polymeric components, at least one of which is a crystallizable polymeric



component that exhibits an area under a melting endotherm of at least about 2% less than the area under the melting endotherm of a homopolymer of the same crystallizable polymeric component.

- 15. (Withdrawn) The golf ball of claim 14, wherein the crystallizable polymeric component exhibits an area under a melting endotherm of at least about 10% less than the area under the melting endotherm of the homopolymer of the same crystallizable polymeric component.
- 16. (Withdrawn) A golf ball comprising an interpenetrating polymer network having at least two polymeric components, wherein at least one of the polymeric components exhibits an average phase size at least about 10% less than the average phase size of that phase separated component in a blend or mixture of the at least two components.
- 17. (Withdrawn) The golf ball of claim 16, wherein the at least one polymeric component exhibits an average phase size at least about 20% less than the average phase size of that phase separated component in a blend or mixture of the at least two components.
- 18. (Withdrawn) The golf ball of claim 1, wherein the center comprises a solid sphere or a fluid-filled sphere.
- 19. (Withdrawn) The golf ball of claim 2, wherein the at least one intermediate layer comprises a tensioned elastomeric material.
- 20. (Withdrawn) The golf ball of claim 2, wherein at least one of the center, the cover, or the intermediate layer has a foamed structure.
- 21. (Withdrawn) The golf ball of claim 1, wherein the cover comprises at least an inner cover layer and an outer cover layer.
- 22. (Withdrawn) A golf ball comprising a cover layer which comprises an interpenetrating polymer network having at least two polymeric components, wherein the shear resistance rating of the cover layer is at least 1 rating category lower than that measured

for a cover layer comprising a polymer blend or mixture that is substantially free of IPN and that is made of the same components as the IPN.

- 23. (Withdrawn) The golf ball of claim 22, wherein the shear resistance rating of the cover layer is at most 2.
- 24. (Withdrawn) A process for forming a portion of a golf ball which comprises: providing a golf ball center; and disposing an IPN about the center to provide a portion of the golf ball.
- 25. (Withdrawn) The process of claim 24, wherein the IPN is included in an intermediate layer disposed about the center.
- 26. (Withdrawn) The process of claim 24, wherein the IPN is included in a cover layer disposed about the center.
- 27. (Withdrawn) The process of claim 24, wherein the interpenetrating polymer network is formed from a material comprising a urethane, an epoxy homopolymer or copolymer, a homopolymer or copolymer having backbone or pendant ester groups, a polyimide or copolymer including imide groups, a polysilane homopolymer or copolymer, a silicone homopolymer or copolymer, a polysiloxane homopolymer or copolymer, or a combination thereof.
- 28. (Withdrawn) The process of claim 24, wherein the interpenetrating polymer network is formed from a material comprising an acrylate homopolymer or copolymer, an alkylacrylate homopolymer or copolymer, a homopolymer or copolymer including vinyl acetate groups, a homopolymer or copolymer including halogen groups, a homopolymer or copolymer including a uretdione group, or a combination thereof.
- 29. (Withdrawn) The process of claim 24, wherein the interpenetrating polymer network is formed from a material comprising a homopolymer or copolymer including or made from a conjugated diene or a styrenic moiety.

5

- 30. (Withdrawn) A process for forming a golf ball comprising: providing a golf ball center; providing a golf ball cover layer disposed over the center; and optionally providing at least one intermediate layer disposed between the center and the cover layer, wherein at least a portion of the golf ball comprises an interpenetrating polymer network that is non-vulcanizable, non-aromatic, or non-ionomeric.
- 31. (Withdrawn) The process of claim 30, wherein the interpenetrating polymer network is formed from a material comprising a urethane, an epoxy homopolymer or copolymer, a homopolymer or copolymer having backbone or pendant ester groups, a polyimide or copolymer including imide groups, a polysilane homopolymer or copolymer, a silicone homopolymer or copolymer, a polysiloxane homopolymer or copolymer, or a combination thereof.
- 32. (Withdrawn) The process of claim 30, wherein the interpenetrating polymer network is formed from a material comprising an acrylate homopolymer or copolymer, an alkylacrylate homopolymer or copolymer, a homopolymer or copolymer including vinyl acetate groups, a homopolymer or copolymer including halogen groups, a homopolymer or copolymer including a uretdione group, or a combination thereof.
- 33. (Withdrawn) The process of claim 30, wherein the interpenetrating polymer network is formed from a material comprising a homopolymer or copolymer including or made from a conjugated diene or a styrenic moiety.
- (Withdrawn) A method for preparing a portion of a golf ball, which comprises: combining at least a first and a second component, each comprising a monomer, oligomer, prepolymer, or a combination thereof, to form a mixture, wherein the first and the second components are miscible with each other and are not substantially reactive with each other; sufficiently polymerizing each component in the mixture to form a material comprising at least one crosslinked polymer; and forming the material into the portion of the golf ball.
 - 35. (Withdrawn) The method of claim 34, wherein the first component comprises a

prepolymer.

- 36. (Withdrawn) The method of claim 34, wherein the material comprises at least two crosslinked polymers.
- (Withdrawn) Golf equipment, at least a portion of which comprises at least one interpenetrating polymer network.

(Withdrawn) A method for preparing a portion of golf equipment, which comprises: combining at least a first and a second component, each comprising a monomer, oligomer, prepolymer, or a combination thereof, to form a mixture, wherein the first and the second components are miscible with each other and are not substantially reactive with each other;

sufficiently polymerizing each component in the mixture to form a material comprising at least one crosslinked polymer; and forming the material into the portion of the golf equipment.